

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A method for authorizing a user on a computer network of identity vectoring using chained mapping records, the method including:

comparing a distinguished name or a partial distinguished name corresponding to the user with a plurality of mapping records;

replacing a variable from a first matching mapping record with an environmental factor to create a first search criteria, the first matching mapping record indicating the distinguished name or the partial distinguished name, wherein the environmental factor includes one or more system or application statuses in effect at the time the user signs-on the computer network, thereby allowing the first matching mapping record to point to multiple user identifications; and

comparing the first search criteria with the plurality of mapping records; and generating an authorization indicator responsive to at least one of comparing the distinguished name or a partial distinguished name and comparing the first search criteria with the plurality of mapping records.

Claim 2. (Currently Amended) The method of claim 1, ~~further including:~~
wherein the generating an authorization indicator includes generating a security context control block using a user identification from a second matching mapping record, the second matching mapping record indicating the first search criteria.

Claim 3. (Currently Amended) The method of claim 1, further including:

replacing a variable from a second matching mapping record with ~~the~~^{an} environmental factor to create a second search criteria, the second matching mapping record indicating the first search criteria.

Claim 4. (Currently Amended) The method of claim 3, ~~further including:~~
wherein the generating an authorization indicator includes generating a security context control block using a user identification from a third matching mapping record, the third matching mapping record indicating the second search criteria.

Claim 5. (Original) The method of claim 1, further including:
eliminating a portion of an X.500 distinguished name to create the partial distinguished name used in said comparing the partial distinguished name with the plurality of mapping records.

21 Claim 6. (Currently Amended) The method of claim 1, ~~further including:~~
wherein the generating an authorization indicator includes generating a security context control block using a user identification from the first matching mapping record if the first matching mapping record includes the user identification.

Claim 7. (Currently Amended) The method of claim 1, ~~further including:~~ wherein comparing the distinguished name or the partial distinguished name corresponding to the user with a plurality of mapping records includes comparing ~~providing an X.500 distinguished name of the user for use as the distinguished name used in said comparing the distinguished name with the plurality of mapping records.~~

Claim 8. (Currently Amended) The method of claim 1, ~~further including:~~ wherein the environmental factor includes providing a system status existing at the time the user signs-on the computer network and replacing a variable includes replacing the variable from the first matching mapping record with the system status. ~~for use as the environmental factor for said replacing the variable.~~

Claim 9. (Currently Amended) A system for authorizing a user on a computer network identity mapping using chained mapping records, the system including:

a digital certificate means for receiving including a distinguished name corresponding to the user;

a distinguished name mapping record indicative of at least a portion of said distinguished name, said distinguished name mapping record including a first data field, said first data field including a first variable indicative of a first environmental factor, wherein the first environmental factor includes one or more system or application statuses in effect at the time said digital certificate is received, thereby allowing said first matching mapping record to point to multiple user identities;

a first criteria mapping record corresponding to a first state of said first environmental factor, said first criteria mapping record including a second data field, said second data field including a first user identity; and

a mapping process configured to receive said digital certificate, wherein said mapping process generates a security context control block using said first user identity in response to said first state of said first environmental factor.

Claim 10. (Original) The system of claim 9, further including:

a second criteria mapping record corresponding to a second state of said first environmental factor, said second criteria mapping record including a third data field, said third data field including a second user identity; and

wherein said mapping process is further configured to generate a security context control block using said second user identity in response to said second state of said first environmental factor.

Claim 11. (Original) The system of claim 9, further including:

a second criteria mapping record corresponding to a second state of said first environmental factor, said second criteria mapping record including a third data field, said third data field including a second variable indicative of a second environmental factor;

a third criteria mapping record corresponding to said second environmental factor, said third criteria mapping record including a fourth data field, said fourth data field including a second user identity; and

wherein said mapping process is further configured to generate a security context control block using said second user identity in response to said second state of said first environmental factor and said third environmental factor.

Claim 12. (Original) The system of claim 9, wherein said distinguished name is an X.500 distinguished name.

Claim 13. (Original) The system of claim 10, wherein said first user identity represents a first level of network authorization, and said second user identity represents a second level of network authorization.

al Claim 14. (Original) The system of claim 9, wherein said first environmental factor is a network status at the time said digital certificate is received by said mapping process.

Claim 15. (Original) The system of claim 9, wherein said first environmental factor is an application status at the time said digital certificate is received by said mapping process.

Claim 16. (Original) The system of claim 9, wherein said first environmental factor is included in said digital certificate.

Claim 17. (Currently Amended) A storage medium encoded with machine-readable computer program code for authorizing a user on a computer network using chained mapping records~~mapping name space identities to digital certificates~~, the storage medium including instructions for causing a computer to implement a method comprising:

comparing a distinguished name or a partial distinguished name corresponding to the user with a plurality of mapping records;

replacing a variable from a first matching mapping record with an environmental factor to create a first search criteria, the first matching mapping record indicating the distinguished name or the partial distinguished name, wherein the environmental factor includes one or more system or application statuses in effect at the time the user signs-on on the computer network, thereby allowing the first matching mapping record to point to multiple user identifications; ~~and~~

~~comparing the first search criteria with the plurality of mapping records; and~~

generating an authorization indicator responsive to at least one of comparing the distinguished name or a partial distinguished name and comparing the first search criteria with the plurality of mapping records.

a1
Claim 18. (Currently Amended) The storage medium of claim 17, ~~further comprising instructions for causing a computer to implement;~~ wherein the generating an authorization indicator includes

generating a security context control block using a user identification from a second matching mapping record, the second matching mapping record indicating the first search criteria.

Claim 19. (Currently Amended) The storage medium of claim 17, further comprising instructions for causing a computer to implement:

replacing a variable from a second matching mapping record with ~~the an~~ environmental factor to create a second search criteria, the second matching mapping record indicating the first search criteria.

Claim 20. (Currently Amended) The storage medium of claim 19, ~~further comprising instructions for causing a computer to implement;~~

wherein the generating an authorization indicator includes generating a security context control block using a user identification from a third matching mapping record, the third matching mapping record indicating the second search criteria.

Claim 21. (Original) The storage medium of claim 17 further comprising instructions for causing a computer to implement:

eliminating a portion of an X.500 distinguished name to create the partial distinguished name used in said comparing the partial distinguished name with the plurality of mapping records.

Claim 22. (Currently Amended) The storage medium of claim 17 ~~further comprising instructions for causing a computer to implement:~~

al wherein the generating an authorization indicator includes generating a security context control block using a user identification from the first matching mapping record if the first matching mapping record includes the user identification.

Claim 23. (Currently Amended) The storage medium of claim 17, ~~further comprising instructions for causing a computer to implement:~~ wherein comparing the distinguished name or the partial distinguished name corresponding to the user with a plurality of mapping records includes comparing

~~providing an X.500 distinguished name for use as the distinguished name used in said comparing the distinguished name of the user~~ with the plurality of mapping records.

Claim 24. (Currently Amended) The storage medium of claim 17, ~~further comprising instructions for causing a computer to implement:~~ wherein the environmental factor includes a system status existing at the time the user signs-on the computer network and replacing a variable includes replacing the variable from the first matching mapping record with the system status.

~~providing a system status for use as the environmental factor for said replacing the variable.~~